

CLAIMS

What is claimed is:

1. An ovenware item comprising a thermoplastic polymer composition,
wherein said thermoplastic polymer composition has a through plane thermal conduc-
5 tivity of 1.0 watt/m[°]K or more.
2. The ovenware item as recited in claim 1 wherein said thermal conductivity
is about 2 watt/m[°]K or more.
3. The ovenware item as recited in claim 1 wherein a thermoplastic in said
thermoplastic polymer composition has one or both of a melting point and glass tran-
10 sition temperature of about 250°C or more.
4. The ovenware item as recited in claim 3 wherein said thermoplastic is a liq-
uid crystalline polymer.
5. The ovenware item as recited in claim 1 wherein said thermoplastic poly-
mer composition comprises a filler having a thermal conductivity of about 50
15 watt/m[°]K or more.
6. The ovenware item as recited in claim 4 wherein said thermoplastic poly-
mer composition comprises a filler having a thermal conductivity of about 50
watt/m[°]K or more.
7. The ovenware item as recited in claim 5 wherein said filler comprises
20 graphite.
8. The ovenware item as recited in claim 6 wherein said filler comprises
graphite.
9. The ovenware item as recited in claim 2 wherein a thermoplastic in said
thermoplastic polymer composition is a liquid crystalline polymer having one or both
25 of a melting point and glass transition temperature of about 250°C or more, and said
thermoplastic composition also comprises a filler having a thermal conductivity of
about 50 watt/m[°]K or more.
10. The ovenware item as recited in claim 9 wherein said filler comprises
graphite.
- 30 11. The ovenware item as recited in claim 1 wherein said thermoplastic poly-
mer composition comprises
12. A process for cooking food, wherein a container which holds or supports
the food while cooking comprises a thermoplastic polymer composition, wherein said

thermoplastic polymer composition has a through plane thermal conductivity of 1.0 watt/m[°]K or more.

13. The process as recited in claim 12 wherein said thermal conductivity is about 2 watt/m[°]K or more.

5 14. The process as recited in claim 12 wherein a thermoplastic in said thermoplastic polymer composition has one or both of a melting point and glass transition temperature of about 250°C or more.

15. The process as recited in claim 14 wherein said thermoplastic is a liquid crystalline polymer.

10 16. The process as recited in claim 12 wherein said thermoplastic polymer composition comprises a filler having a thermal conductivity of about 50 watt/m[°]K or more.

15 17. The process as recited in claim 15 wherein said thermoplastic polymer composition comprises a filler having a thermal conductivity of about 50 watt/m[°]K or more.

18. The process as recited in claim 16 wherein said filler comprises graphite.

19. The process as recited in claim 17 wherein said filler comprises graphite.

20 20. The process as recited in claim 14 wherein a thermoplastic in said thermoplastic polymer composition is a liquid crystalline polymer having one or both of a melting point and glass transition temperature of about 250°C or more, and said thermoplastic composition also comprises a filler having a thermal conductivity of about 50 watt/m[°]K or more.

21. The process as recited in claim 20 wherein said filler comprises graphite.

25 22. The process as recited in claim 12 wherein said thermoplastic polymer composition comprises